

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-08-04 17:19:38

Date of Next Testing: 2025-08-03 17:19:38

Product Name: **Monophosphoryl Lipid A (Synthetic)(MPLA)**

CAS Number: 1246298-63-4

Specifications & Purity: $\geq 99\%$

Lot #: G23261246

SKU #: **M130160**

Version: **0**

Analysis #: **248521**

Storage Temperature: Store at -20°C

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	100.00000 %
Hydrogen by Elemental Analysis	10.1-10.7 (%)	10.43000 %
Oxygen by Elemental Analysis	19.4-20.2 (%)	19.96000 %
Nitrogen by Elemental Analysis	2.1-2.6 (%)	2.38000 %
Phosphorus by Elemental Analysis	1.5-2 (%)	1.76000 %
Carbon by Elemental Analysis	63.9-65.6 (%)	65.32000 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager